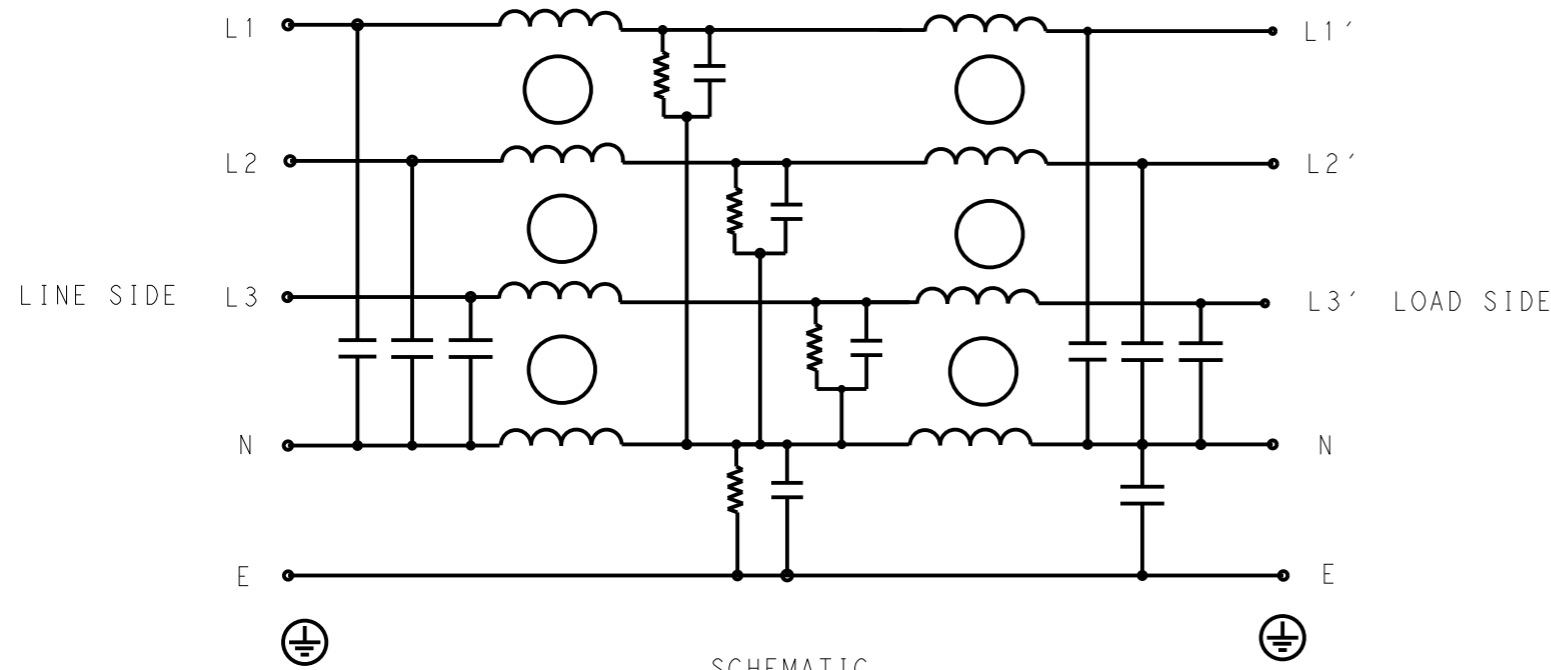


P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	INITIAL RELEASE	20APR2021	SR	CB



SCHMATIC

SAFETY ORGANIZATIONS

THIS FILTER WILL BE FORMALLY RECOGNIZED, CERTIFIED OR APPROVED BY THE LISTED AGENCY. THEREFORE, ALL TEST/REQUIREMENTS SPECIFIED IN THE LATEST REVISION OF THE FOLLOWING AGENCY STANDARDS WILL BE MET:

UL APPROVED 16A 440V 50Hz/60Hz 50°C  
 CSA APPROVED 16A 440V 50Hz/60Hz 50°C

OPERATING SPECIFICATION

LINE CURRENT/VOLTAGE: 16A, 440VAC  
 LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 5mA @ 230VAC, 50Hz

OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -10°C TO +50°C

IN AN AMBIENT, T<sub>a</sub>, HIGHER THAN 50°C, THE MAXIMUM OPERATING CURRENT, I<sub>o</sub>, IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{105 - T_a}{55}}$$

RELIABILITY SPECIFICATIONS

STORAGE TEMPERATURE: -40°C TO +85°C  
 HUMIDITY: 21 DAYS @ 40°C AND 95% RH

TEST SPECIFICATIONS

INDUCTANCE, NOMINAL: 8mH

CAPACITANCE @ 1kHz

NEUTRAL TO GROUND, NOMINAL: 1µF  
 LINE TO NEUTRAL, NOMINAL: 3µF

DISCHARGE RESISTOR

L/L I.R. 2MΩ 1W  
 L/N I.R. 1.5MΩ 1W  
 L/G I.R. 2MΩ 1W  
 N/G I.R. 680KΩ 1W  
 IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

RECOMMENDED RECEIVING INSPECTION HIPOT

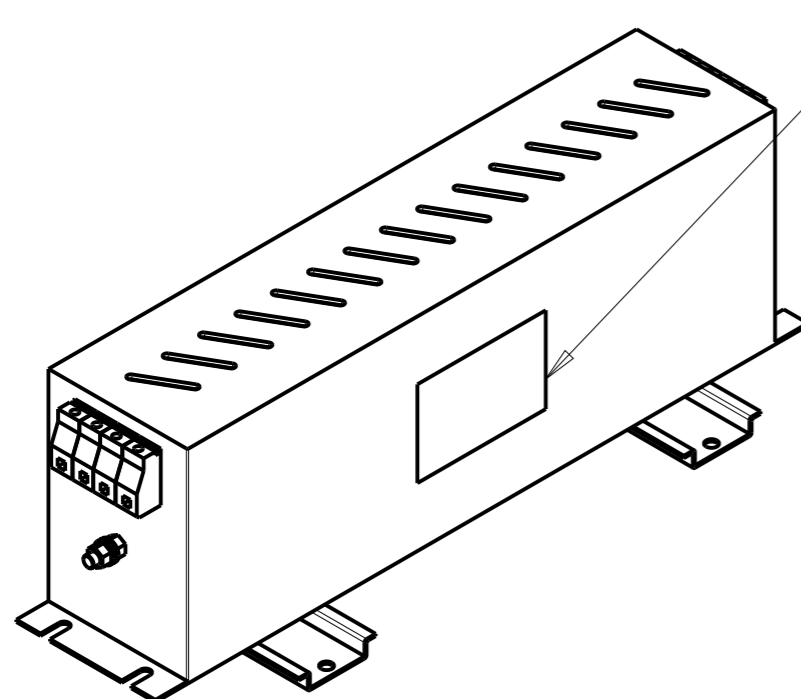
LINE TO GROUND FOR 1 MINUTE: 2632VDC  
 LINE TO LINE FOR 1 MINUTE: 1892VDC  
 LINE TO NEUTRAL FOR 1 MINUTE: 1093VDC

FILTER APPROVAL

THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

TYPICAL INSERTION LOSS  
 COMMON MODE 50/50Ω; DIFFERENTIAL MODE 50/50Ω

MHz	0.01	0.05	0.15	0.5	1	3	5	10	30
CM	72	70	68	70	74	65	58	46	24
DM	56	50	38	51	52	48	42	28	32



LABEL TO TE MARKING SPECIFICATION

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SUPREETH R 20APR2021		
		CHK CHRIS BOLLE 20APR2021		
DIMENSIONS: mm		APVD CHRIS BOLLE 20APR2021	NAME POWER LINE FILTER FOR DIN 35 RAIL INSTALLATION 16KEVD10ABSWVM	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC -	RESTRICTED TO -	
0 PLC ±-		APPLICATION SPEC -	SIZE A3	CAGE CODE 00779
1 PLC ±0.5		WEIGHT -	DRAWING NO C-3-1609998-4	
2 PLC ±0.40				
3 PLC ±0.130				
4 PLC ±0.0500				
ANGLES ±-				
MATERIAL -	FINISH -			
		CUSTOMER DRAWING	SCALE 2:5	SHEET 1 OF 2
			REV A	

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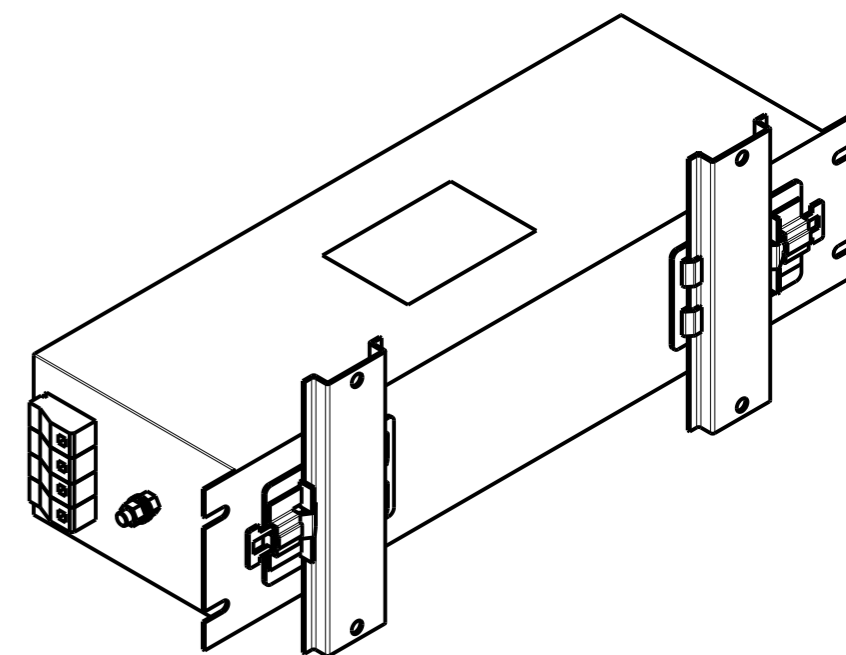
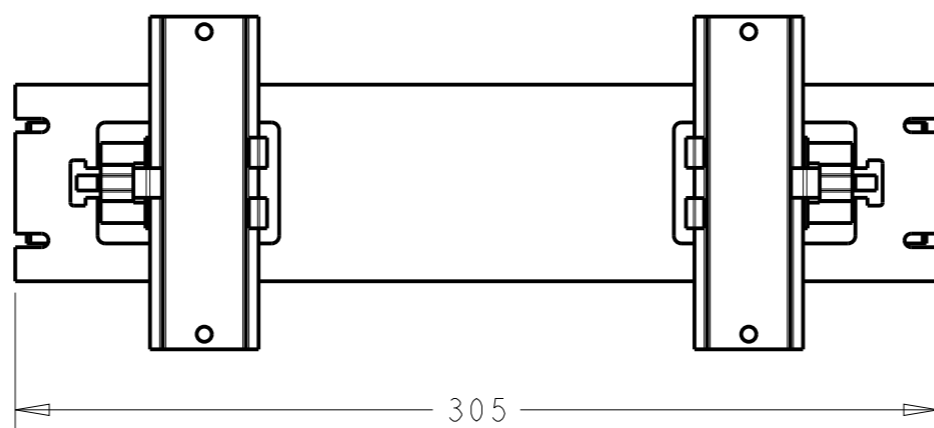
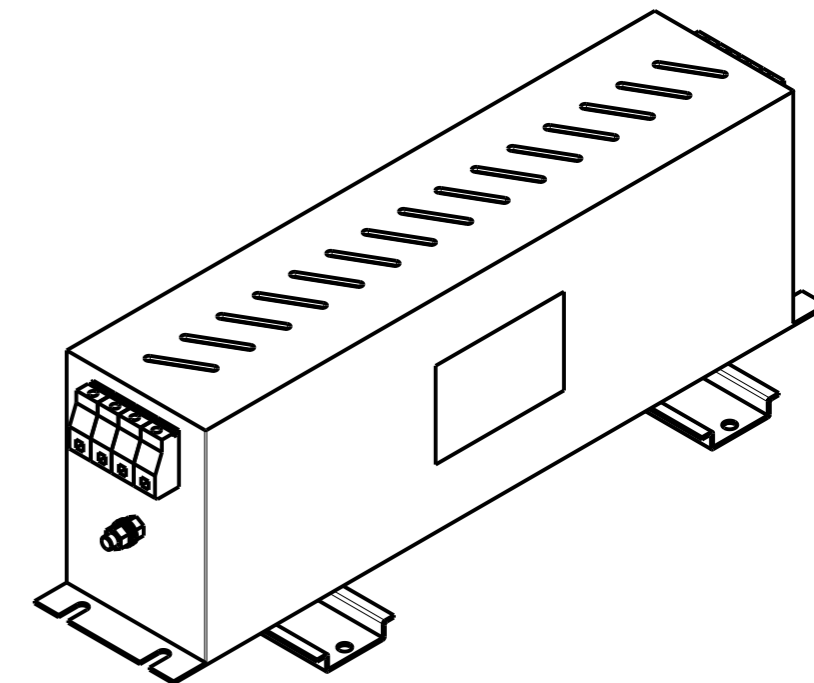
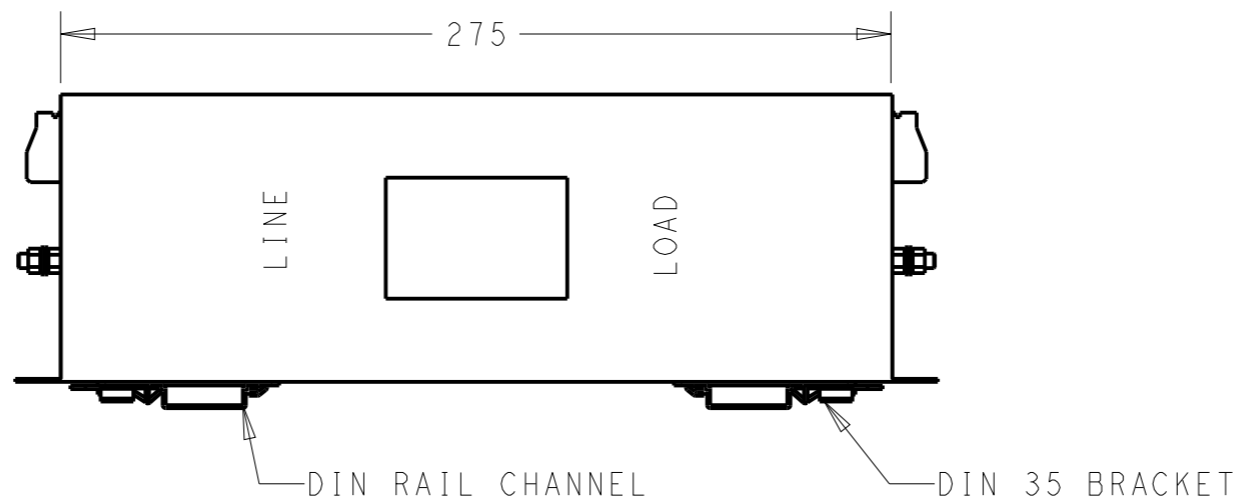
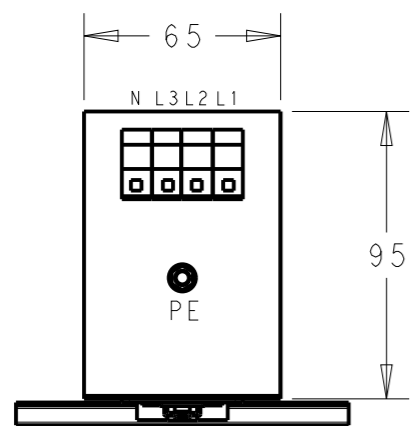
NOTE 1 GROUND CONNECTION:  
 FOR ELECTRICAL SAFETY AND FILTER PERFORMANCE  
 UNIT MUST HAVE A GOOD GROUND CONNECTION.  
 TORQUE OUTER TERMINAL SCREWS: 0.5Nm / 4.5 in.lbs  
 TORQUE GROUND NUTS: 2Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL  
 AWG SIZE: 26-12 AWG  
 WIRE SECTION: 4 mm<sup>2</sup>  
 THREADED BOLT SIZE FOR GROUND: M5

NOTE 3 SUPPLIED WITH DIN RAIL BRACKET.

NOTE 4 DRAWING SHOWS DIN RAIL FOR REFERENCE ONLY.

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:	
		0 PLC	±0.5
		1 PLC	±0.40
		2 PLC	±0.130
		3 PLC	±0.0500
		4 PLC	±0.0500
ANGLES	±		
MATERIAL	-	FINISH	-
	-		-

DWN	20APR2021
SUPREETH R	
CHK	20APR2021
CHRIS BOLLE	
APVD	20APR2021
CHRIS BOLLE	
PRODUCT SPEC	-
APPLICATION SPEC	-
WEIGHT	-
CUSTOMER DRAWING	

		NAME		RESTRICTED TO
		POWER LINE FILTER FOR DIN 35 RAIL INSTALLATION 16KEVD10ABSWVM		
SIZE	CAGE CODE	DRAWING NO		
A3	00779	C-3-1609998-4		
SCALE		SHEET	OF	REV
2:5		2	2	A